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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/520,197	02/25/2000	Francois Maurice	RCA 88.441A	5680

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OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.  
1940 DUKE STREET  
ALEXANDRIA, VA 22314

EXAMINER
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NGUYEN, CHANH DUY

ART UNIT	PAPER NUMBER
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2675

DATE MAILED: 12/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/520,197

Applicant(s)

MAURICE, FRANCOIS

Examiner

Chanh Nguyen

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2675

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 25 February 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 14-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 14-16 is/are rejected.
- 7) ☒ Claim(s) 16 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☒ Certified copies of the priority documents have been received in Application No. 08/737,192.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 12. 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Response to Preliminary Amendment***

1. The preliminary amendment filed on February 25, 2000 has been entered and considered by examiner.

### ***Priority***

2. An application in which the benefits of an earlier application are desired must contain a specific reference to the prior application(s) in the first sentence of the specification of in an application data sheet (37 CFR 1.78(a)(2) and (a)(5)). The specific reference to any prior nonprovisional application must include the relationship (i.e., continuation, divisional, or continuation-in-part) between the applications except when the reference is to a prior application of a CPA assigned the same application number.

### ***Information Disclosure Statement***

3. The references listed on the Information Disclosure Statement filed on February 25, 2003 have been considered by examiner; see attached PTO-1449.

### ***Specification***

4. The abstract of the disclosure is objected to because it is not a single paragraph. Correction is required. See MPEP § 608.01(b).
5. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
6. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

### Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or  
REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)
- (e) BACKGROUND OF THE INVENTION.
  - (1) Field of the Invention.
  - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

7. The disclosure is objected to because of the following informalities:

The term [sic] and circle cited on page 1, line 40 and in the abstract , line 3 should be deleted because it is inappropriate to show in the patent.

Appropriate correction is required.

### ***Claim Objections***

8. Claims 14-15 are objected to because of the following informalities: Although applicants' claims 14-15 meet the requirement of 112/2<sup>nd</sup>, i.e. the metes and bounds are determinable. The term "them" recited in claim 14 and the term "it" recited in claim 15 could be improved because these terms do not positively recite the limitation or which elements "it" or "them" in the claims are referred to. It is in the best interest of the patent community that applicant, in his/her normal review and/or rewriting of the claims, take into consideration these editorial situations and make changes as necessary.

### ***Double Patenting***

9. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

10. Claims 14-16 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-38 of U.S. Patent No. 6,052,426 in view of Dieudonne (FR 2,542,869), and further in view of Kawamori (U.S. Patent No. 5,598,178).

As to claims 14-16, claim 1 of the U.S. Patent No. 6,052,426 discloses all the limitation recited in claim 16 of this instant application excepting the limitation scanners, scanner for columns, a supplementary conductive column as recited in claim 14. Dieudonne discloses a display device having an active matrix including a plurality of scanners (DL) for selection line (LA), a plurality of scanners for columns (DC), and supplementary conductive column (e.g., CC2)) crossing over the selection lines (LA). Dieudonne does not mention a capacitively coupled to each of them in such way that each corresponding coupling capacitance having a value close to the sum of the coupling capacitances formed between a given selection line and the columns with given selection line crosses. Kawamori teaches a supplementary conductive column (e.g., D1-Dn) crossing over the selection lines (Y1-Ym), and capacitance (dummy capacity elements 5) coupled to each of them. Kawamori teaches that "a sum of the electrostatic capacities of the dummy display element in each line being virtually equal to a sum of the electrostatic capacities of all the display elements in the corresponding scanning line in the liquid crystal display element" (see column 12, lines 30-34). This reads on claimed "each corresponding coupling capacitance having a value close to the sum of the coupling capacitances formed between a given selection line and the columns with given selection line crosses" as recited in the claim. Therefore, it would have been obvious to one of ordinary skill in the art at the invention was made to have used coupling capacitance (or dummy element) as taught by Kawamori to the supplementary conductive column of Dieudonne so as to crosstalk phenomenon can be reduced or eliminated (see column 4, lines 53-56 of Kawamori).

***Claim Rejections - 35 USC § 103***

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. Claims 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dieudonne et la (FR 2,542,896) in view of Kawamori (U.S. Patent No. 5,598,178).

As to claim 14, Dieudonne discloses a display device having an active matrix including a plurality of scanners (DL) for selection line (LA), a plurality of scanners for columns (DC), and supplementary conductive column (e.g., CC2)) crossing over the selection lines (LA). Dieudonne does not mention a capacitively coupled to each of them in such way that each corresponding coupling capacitance having a value close to the sum of the coupling capacitances formed between a given selection line and the columns with given selection line crosses. Kawamori teaches a supplementary conductive column (e.g., D1-Dn) crossing over the selection lines (Y1-Ym), and capacitance (dummy capacity elements 5) coupled to each of them. Kawamori teaches that "a sum of the electrostatic capacities of the dummy display element in each line being virtually equal to a sum of the electrostatic capacities of all the display elements in the corresponding scanning line in the liquid crystal display element" (see column 12, lines 30-34). This reads on claimed "each corresponding coupling capacitance having a value close to the sum of the coupling capacitances formed between a given selection

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line and the columns with given selection line crosses" as recited in the claim.

Therefore, it would have been obvious to one of ordinary skill in the art at the invention was made to have used coupling capacitance (or dummy element) as taught by Kawamori to the supplementary conductive column of Dieudonne so as to crosstalk phenomenon can be reduced or eliminated (see column 4, lines 53-56 of Kawamori).

As to claim 15, Dieudonne clearly teaches comparator circuit (OP1) coupled to the supplementary conductive column (e.g., CC2). Thus, combining Dieudonne and Kawamori would meet all the limitation recited in claim 15.

### ***Allowable Subject Matter***

13. Claim 16 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, and if terminal disclaimer is filed to overcome the obvious type double patenting.

### **Inquiries**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chanh Nguyen whose telephone number is (703) 308-6603.

If attempts to reach the examiner by telephone are unsuccessful, the examiner supervisor, Steven Saras can be reached at 305-9720.

**Any response to this action should be mailed to:**



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Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

**(703) 872-9306**

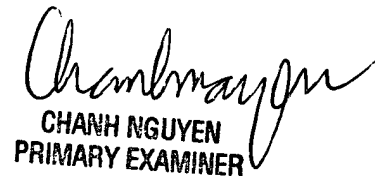
Hand-delivered responses should be brought to Crystal Park II, 2121

Crystal Drive, Arlington, VA, Sixth Floor (Receptionist)

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.



C. Nguyen  
December 12, 2003



CHANH NGUYEN  
PRIMARY EXAMINER